

Examiner's Copy

AN 1977:181612 HCAPLUS

DN 86:181612

TI Low resistance heating elements for electric blankets

IN Kobayashi, Yasushi; Terao, Kazuhiko

PA Tokyo Tokushu Electric Wire Mfg. Co., Ltd., Japan

SO Japan., 2 pp.

CODEN: JAXXAD

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 51045528	B4	19761204	JP 1972-117559	19721122
	JP 49076133	A2	19740723		

AB Cu alloys contg. Ag 0.5-4.0, Sn 0.1-0.5, and Mn 0.05-0.5 wt. % are useful as low-resistance heating elements for elec. blankets, etc. The alloys have good workability, good mech strength, and low resistivity. Thus, a Cu alloy contg. Ag 4.0, Sn 0.5, and Mn 0.2 wt. % was made into 0.5-mm-diam., then drawn into 0.08-mm diam. **wire**: frequency of broken **wire** was 1/unit time, vs. 8 times/unit time for a control without Mn. The sp. resistance of the alloy was 2.41 .mu..OMEGA.-cm. Heating elements for elec. blanket prep'd. by using 0.08-mm-thick, 0.43-mm wide **wire** of the above alloy were then bending tested by using the JISC 3301-5.10(1) method: the Cu alloy **wire** broke after 19,010 bending operations.